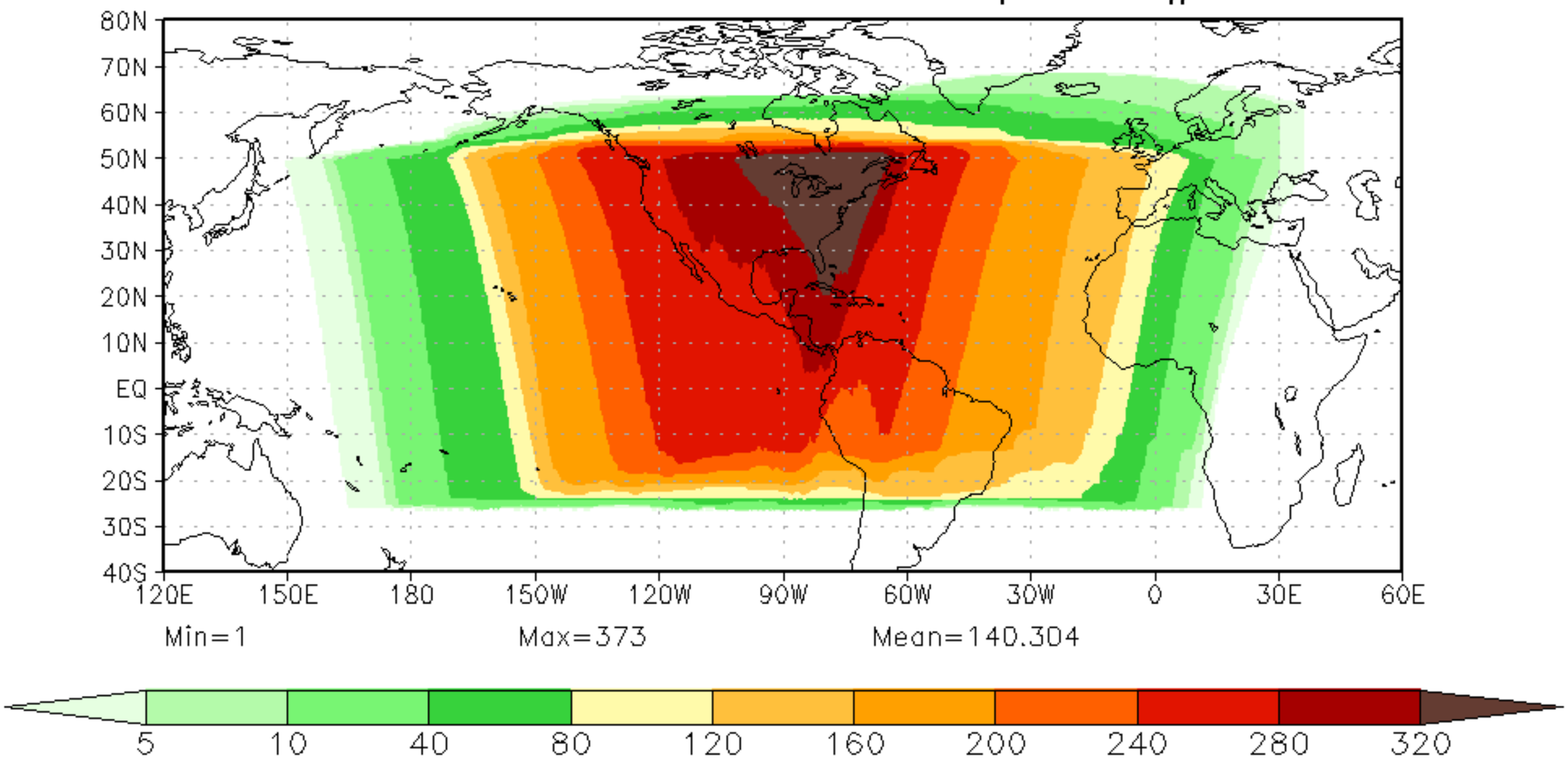
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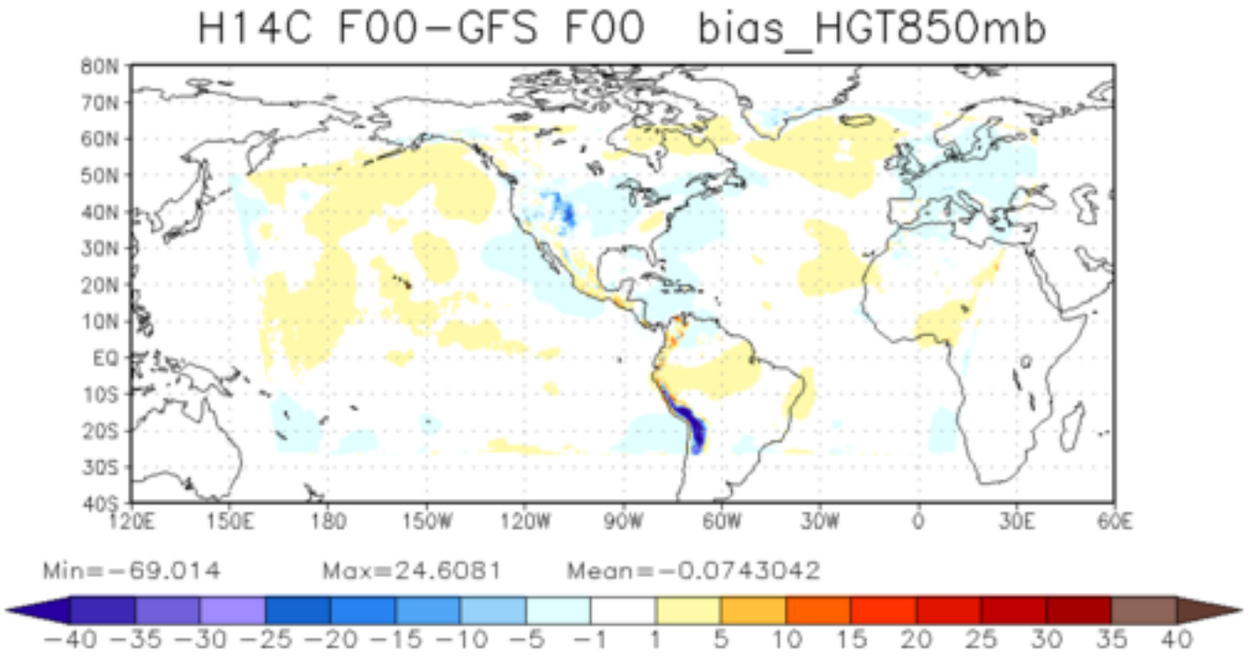
80N
70N
60N
50N
40N
30N
20N
10N
EQ
10S
20S
30S
40S
120E
150E
180
150W
120W
90W
60W
30W
0
30E
60E
Min=1
Max=373
Mean=140.304
5
10
40
80
120
160
200
240
280
320

HGT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Min=-69.014
Max=24.6081
Mean=-0.0743042
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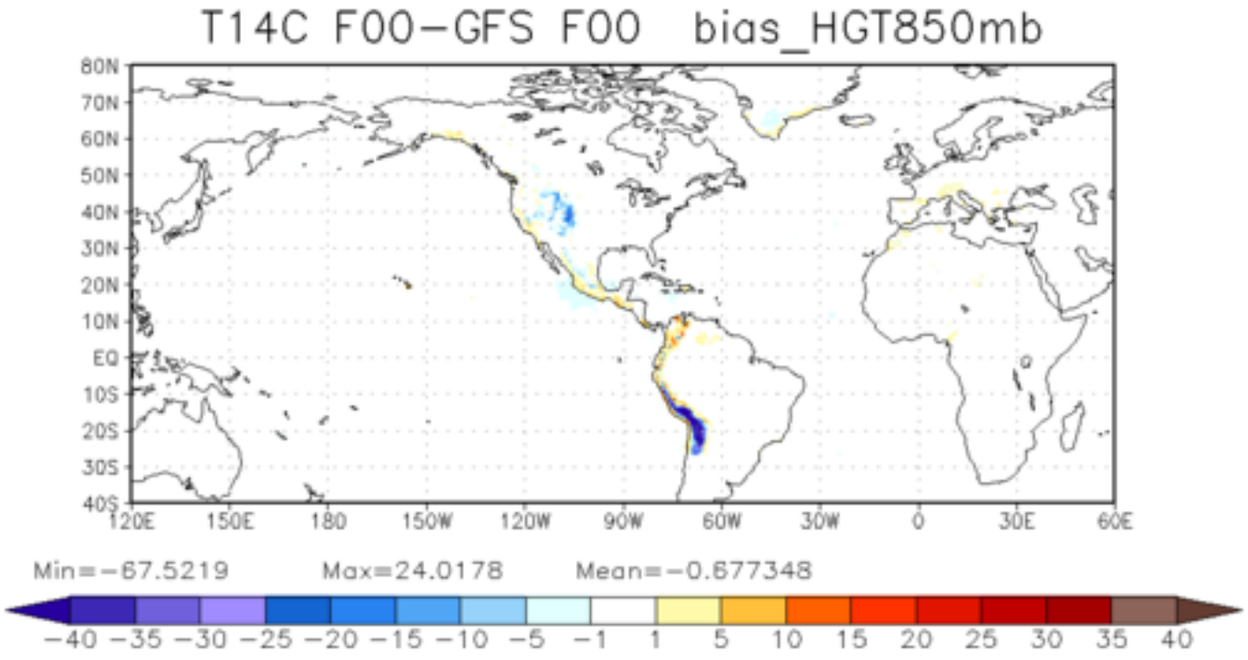
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Min=-67.5219
Max=24.0178
Mean=-0.677348
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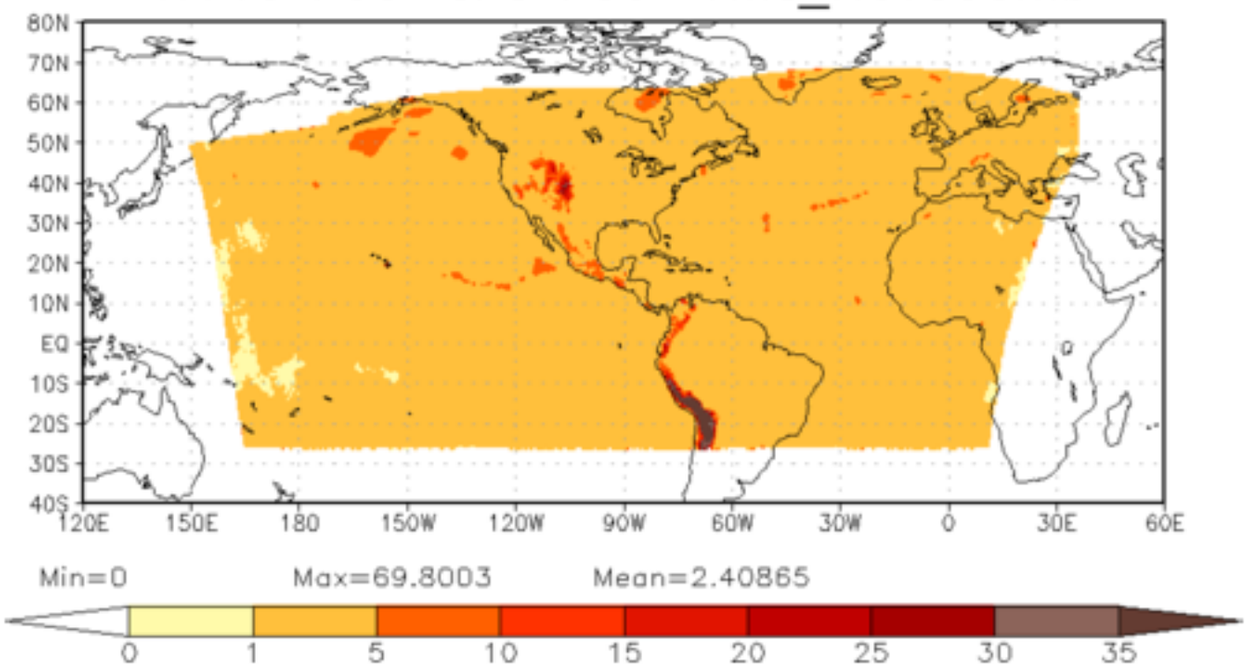
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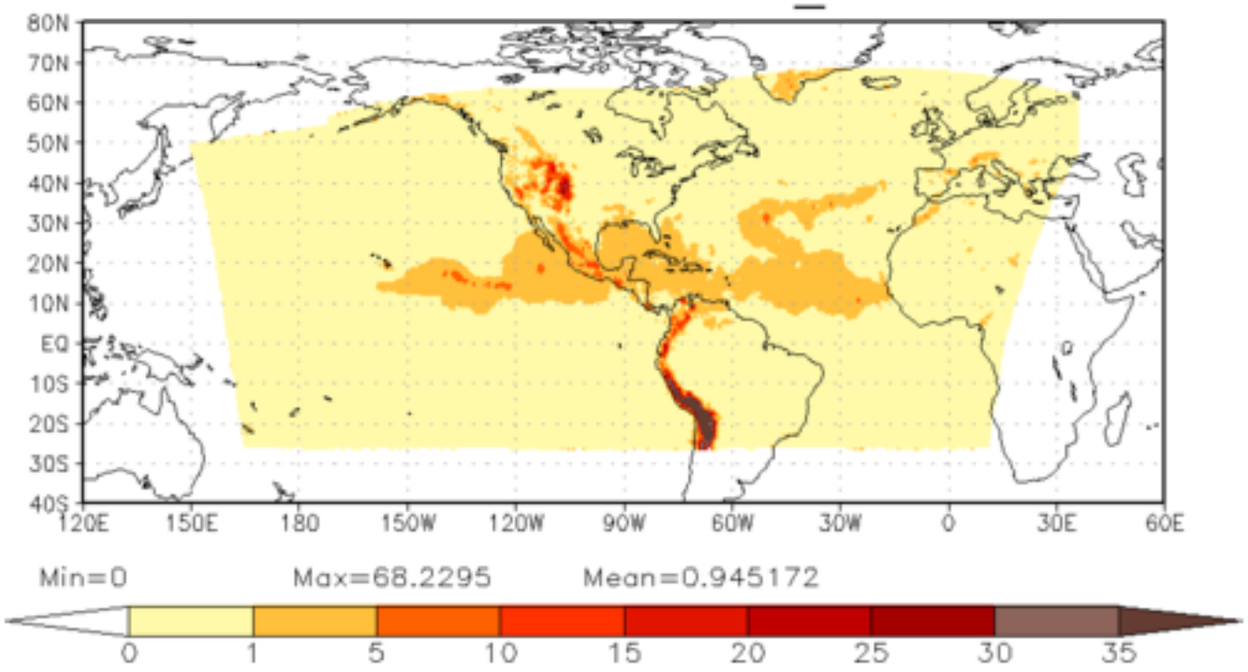
Min=0
Max=69.8003
Mean=2.40865
0 1 5 10 15 20 25 30 35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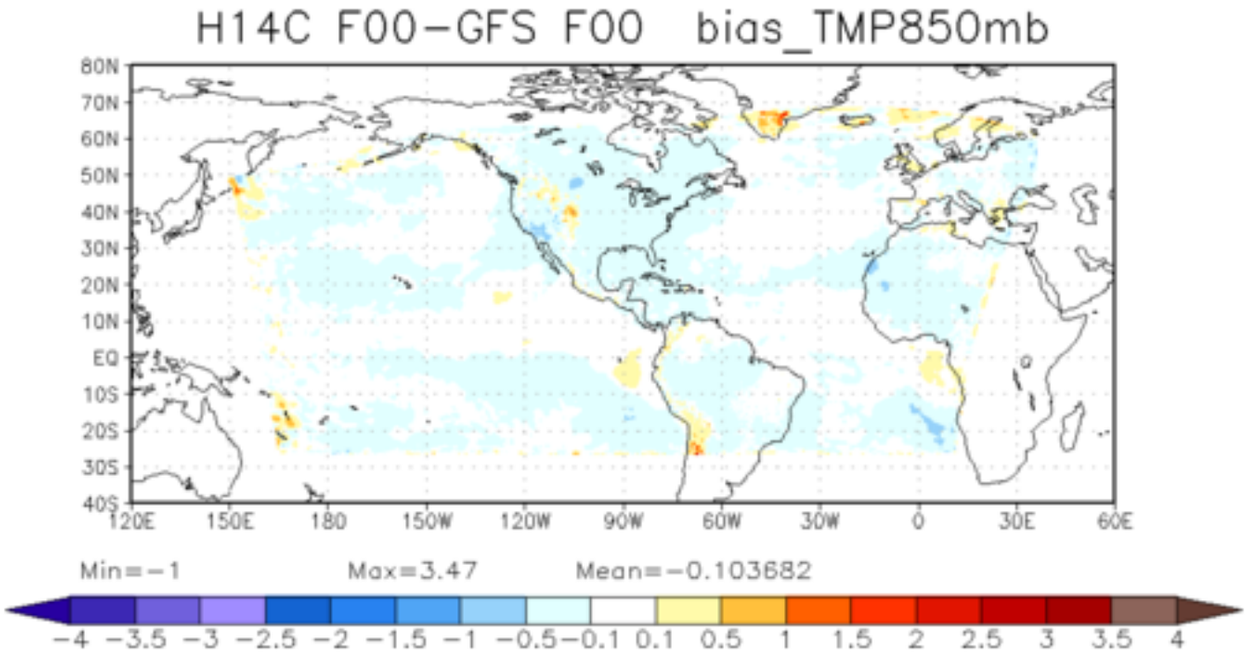
Min=0
Max=68.2295
Mean=0.945172
0 1 5 10 15 20 25 30 35

TMP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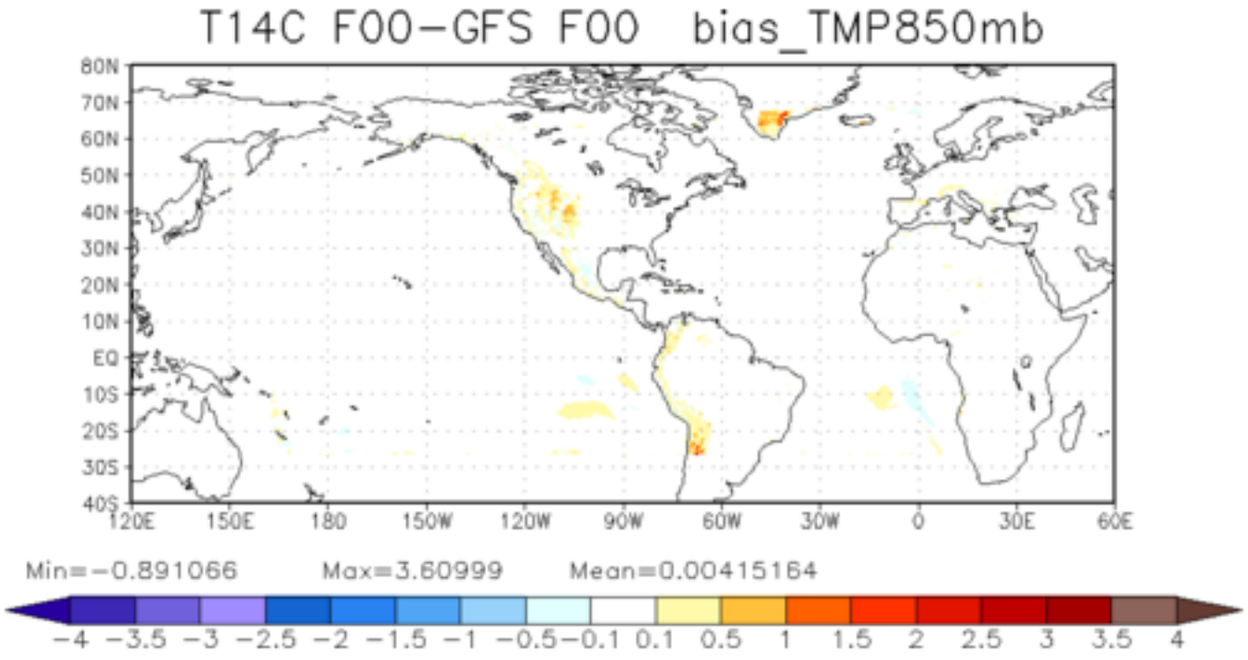
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-1 Max=3.47 Mean=-0.103682
-4 -3.5 -3 -2.5 -2 -1.5 -1 -0.5 -0.1 0.1 0.5 1 1.5 2 2.5 3 3.5 4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80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-0.891066 Max=3.60999 Mean=0.00415164
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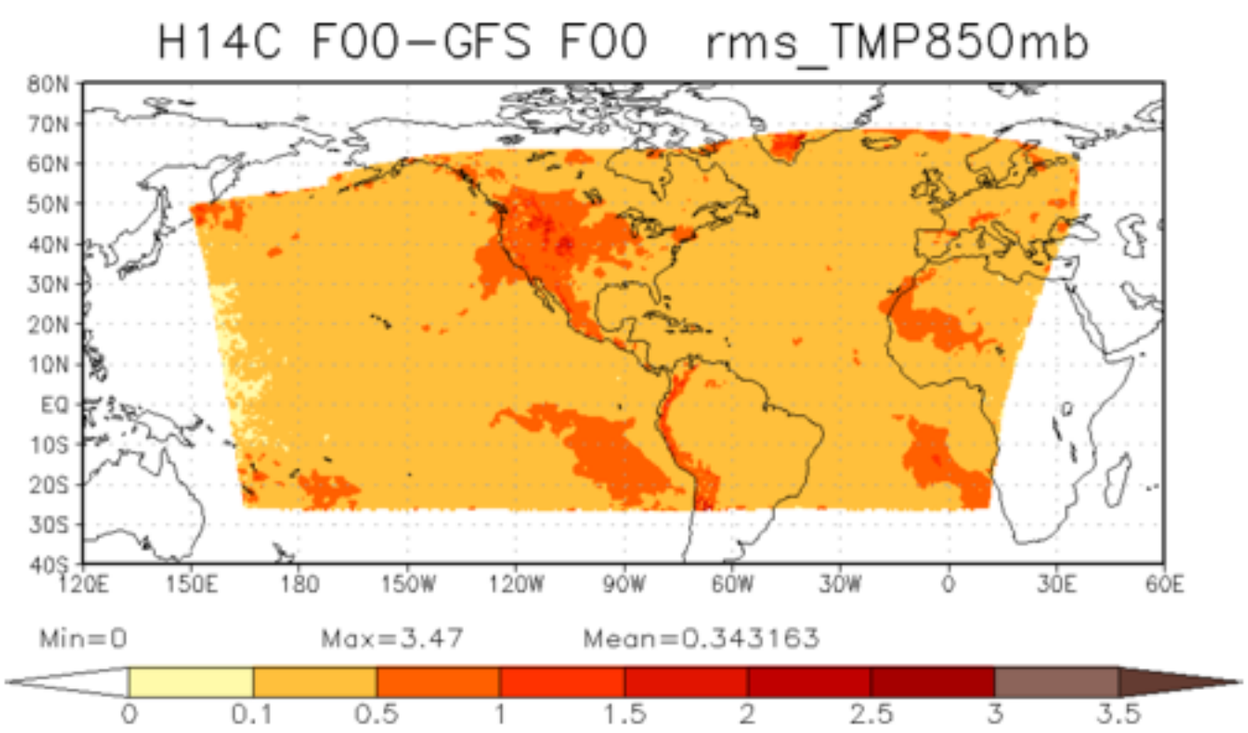
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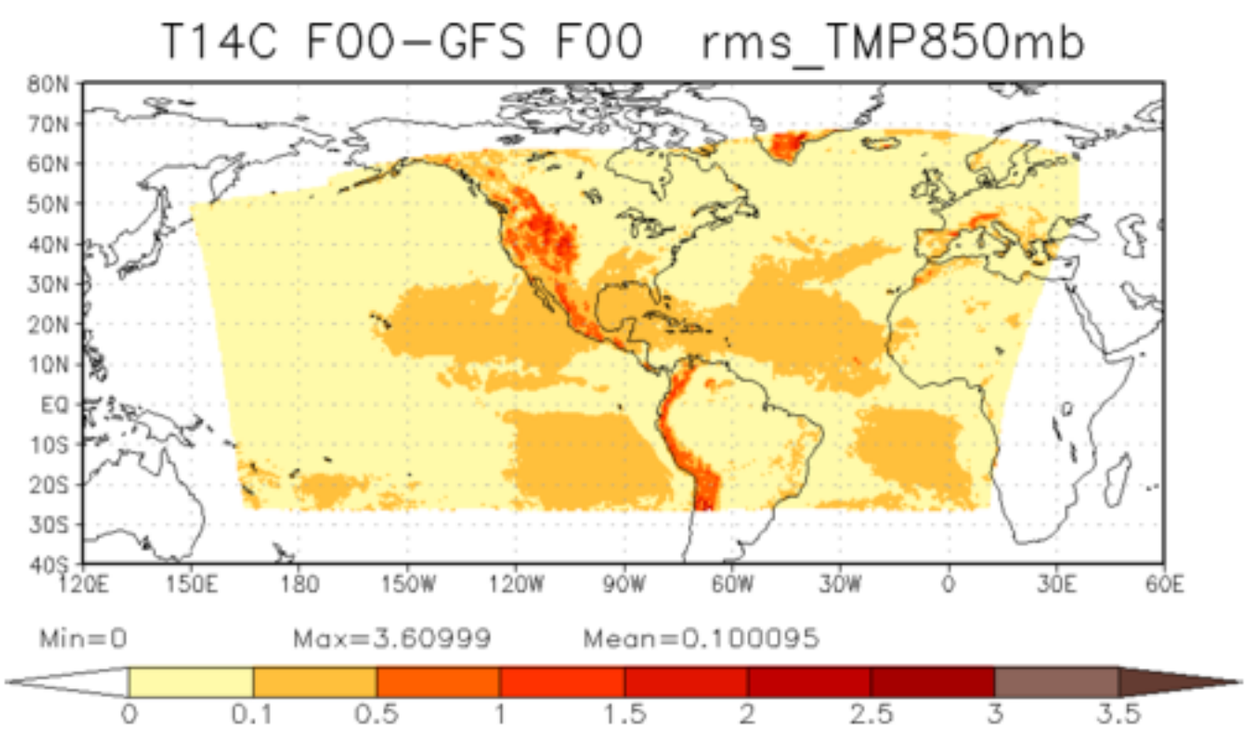
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=3.47 Mean=0.343163
0 0.1 0.5 1 1.5 2 2.5 3 3.5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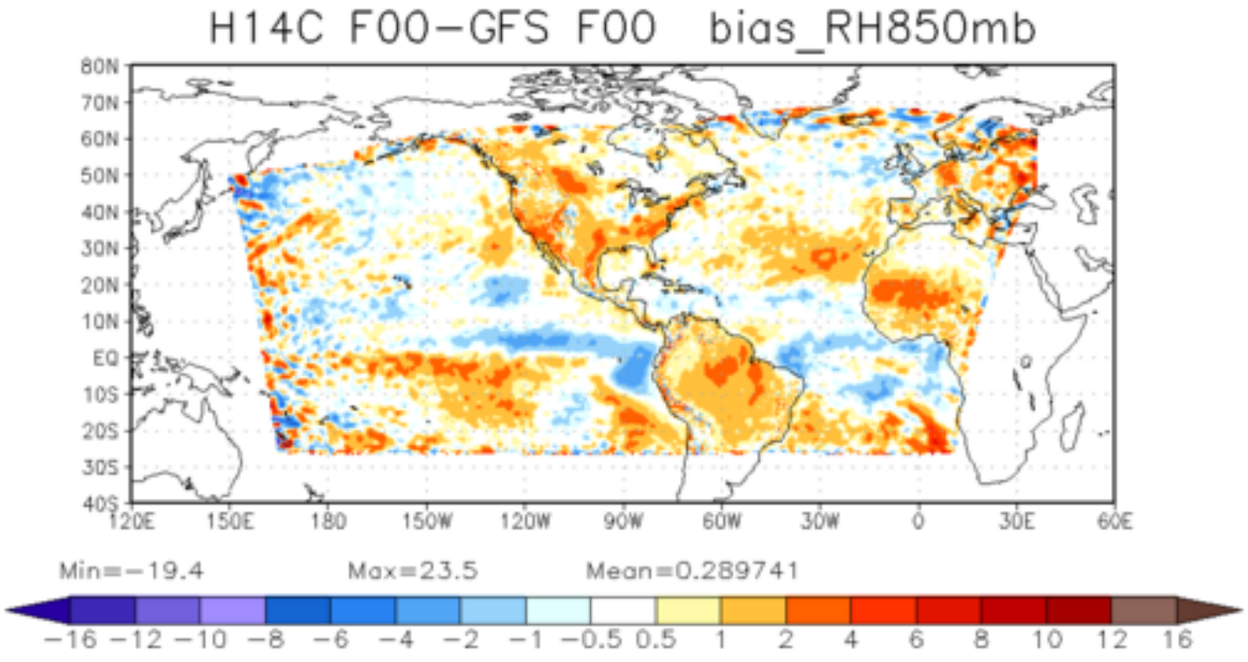
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=3.60999 Mean=0.100095
0 0.1 0.5 1 1.5 2 2.5 3 3.5

RH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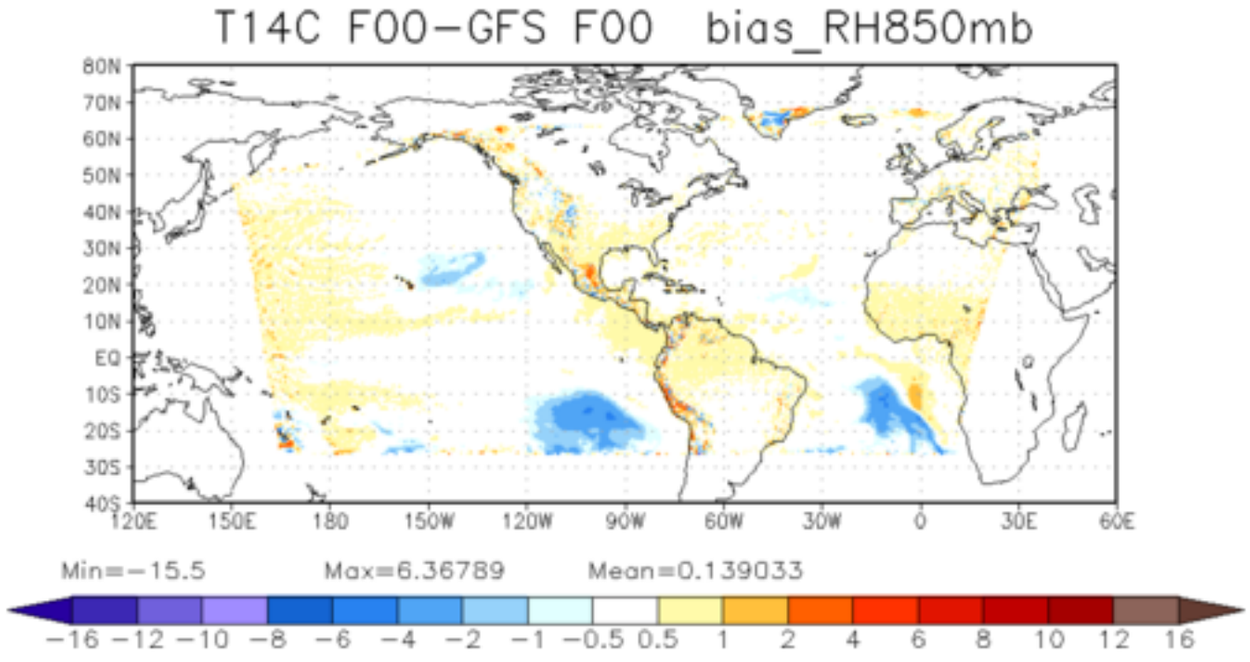
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-19.4 Max=23.5 Mean=0.289741
-16 -12 -10 -8 -6 -4 -2 -1 -0.5 0.5 1 2 4 6 8 10 12 16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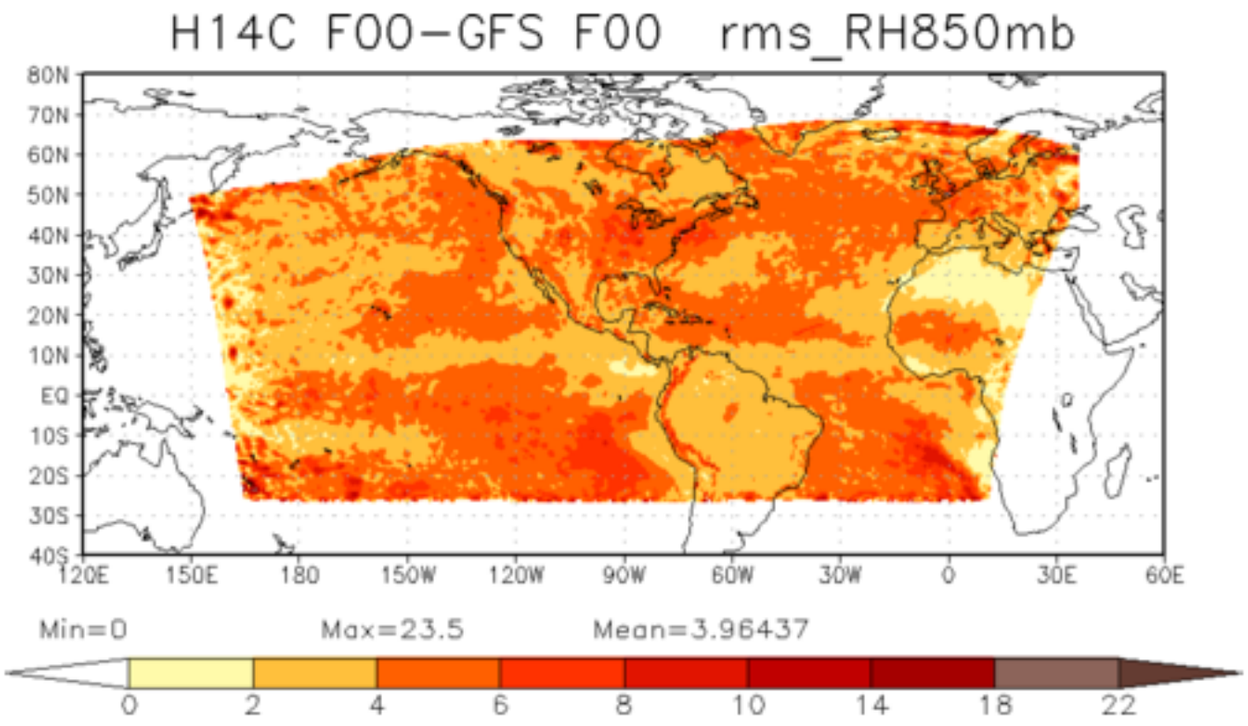
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-15.5 Max=6.36789 Mean=0.139033
-16 -12 -10 -8 -6 -4 -2 -1 -0.5 0.5 1 2 4 6 8 10 12 16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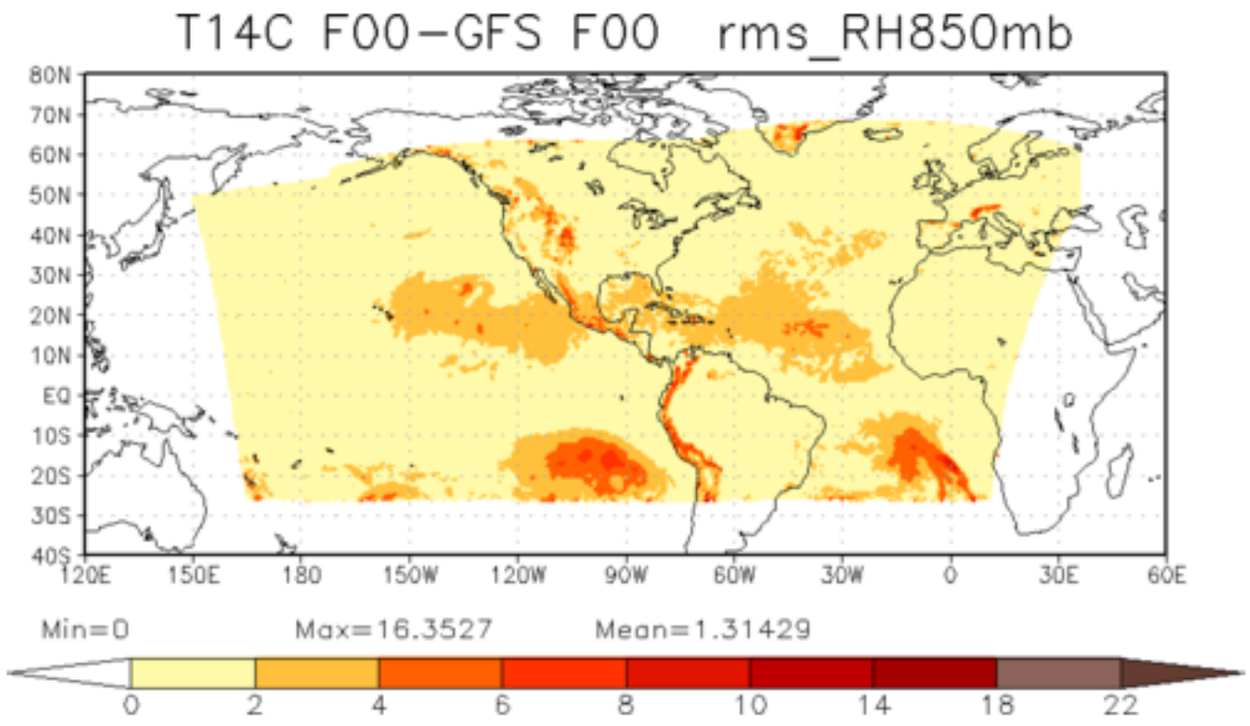
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=23.5 Mean=3.96437
0 2 4 6 8 10 14 18 22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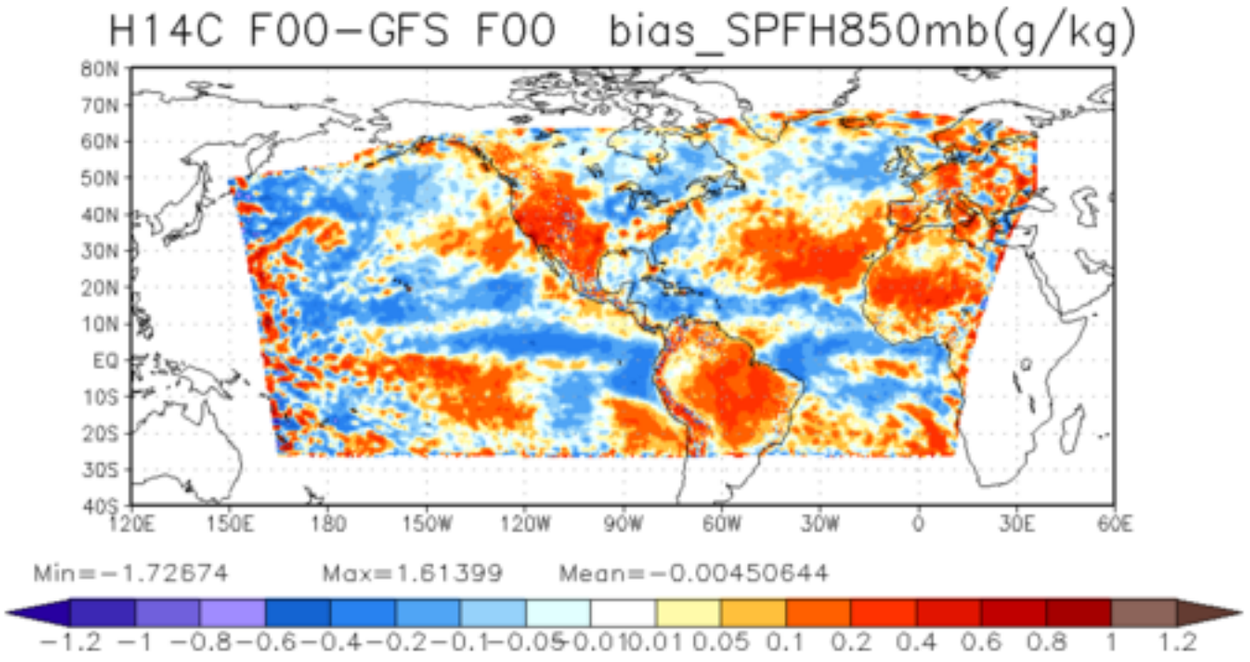
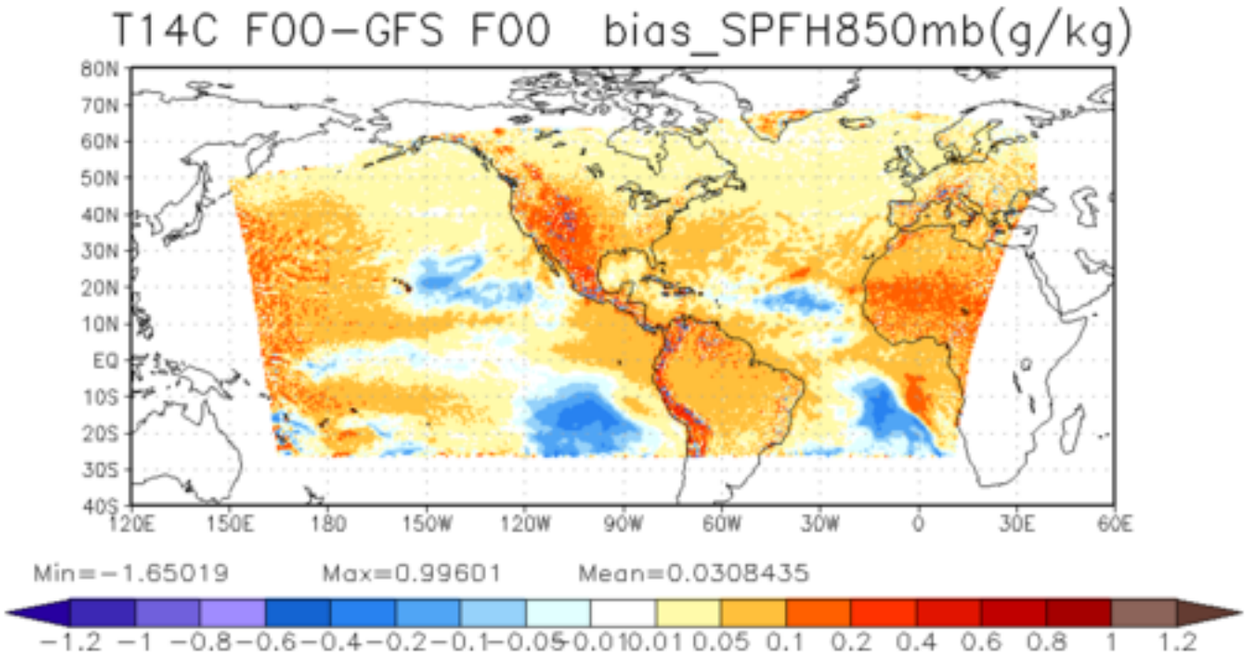
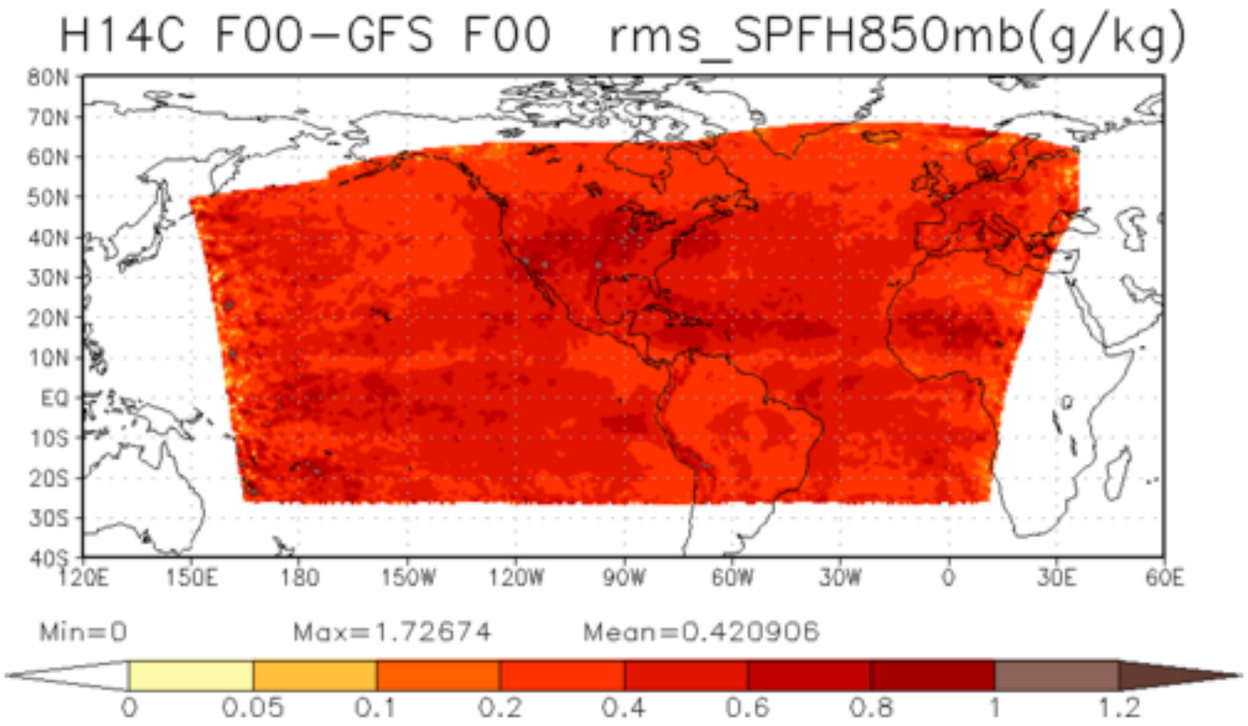
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=16.3527 Mean=1.31429
0 2 4 6 8 10 14 18 22

SPFH


H14C F00-GFS F00 bias_SPFH850mb(g/kg)
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-1.72674 Max=1.61399 Mean=-0.00450644
-1.2 -1 -0.8 -0.6 -0.4 -0.2 -0.1 -0.05 -0.01 0.01 0.05 0.1 0.2 0.4 0.6 0.8 1 1.2


T14C F00-GFS F00 bias_SPFH850mb(g/kg)
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-1.65019 Max=0.99601 Mean=0.0308435
-1.2 -1 -0.8 -0.6 -0.4 -0.2 -0.1 -0.05 -0.01 0.01 0.05 0.1 0.2 0.4 0.6 0.8 1 1.2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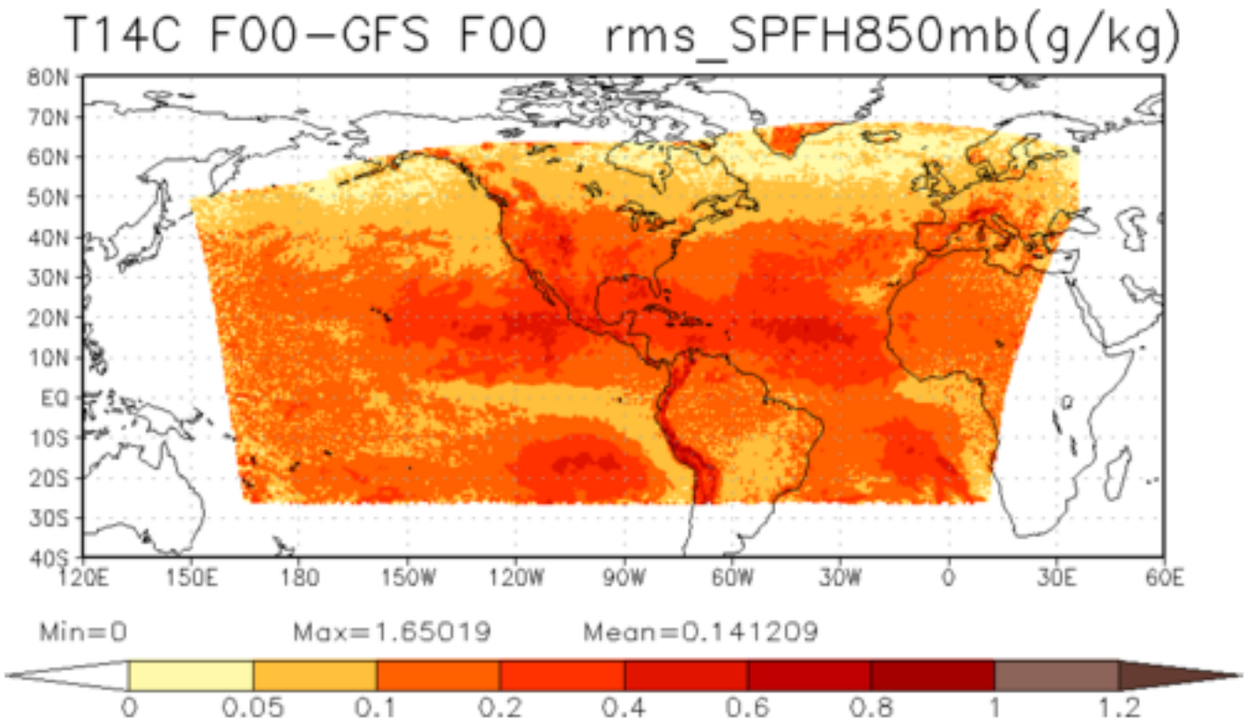
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=1.72674 Mean=0.420906
0 0.05 0.1 0.2 0.4 0.6 0.8 1 1.2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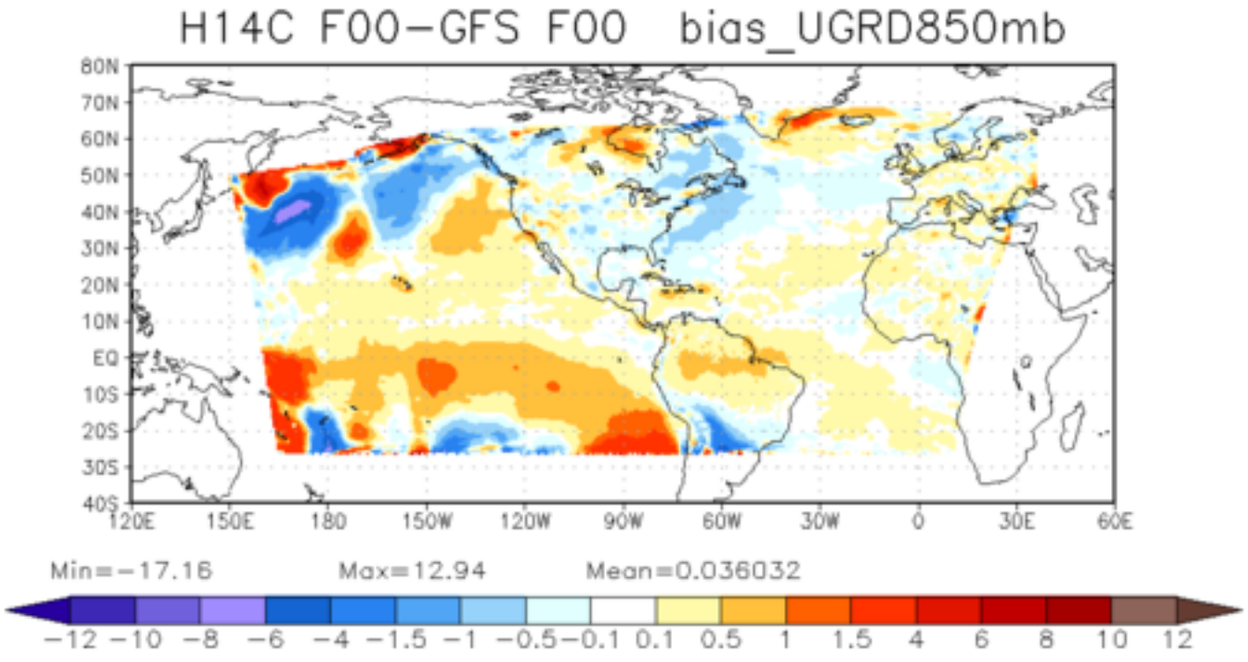
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=1.65019 Mean=0.141209
0 0.05 0.1 0.2 0.4 0.6 0.8 1 1.2

UGRD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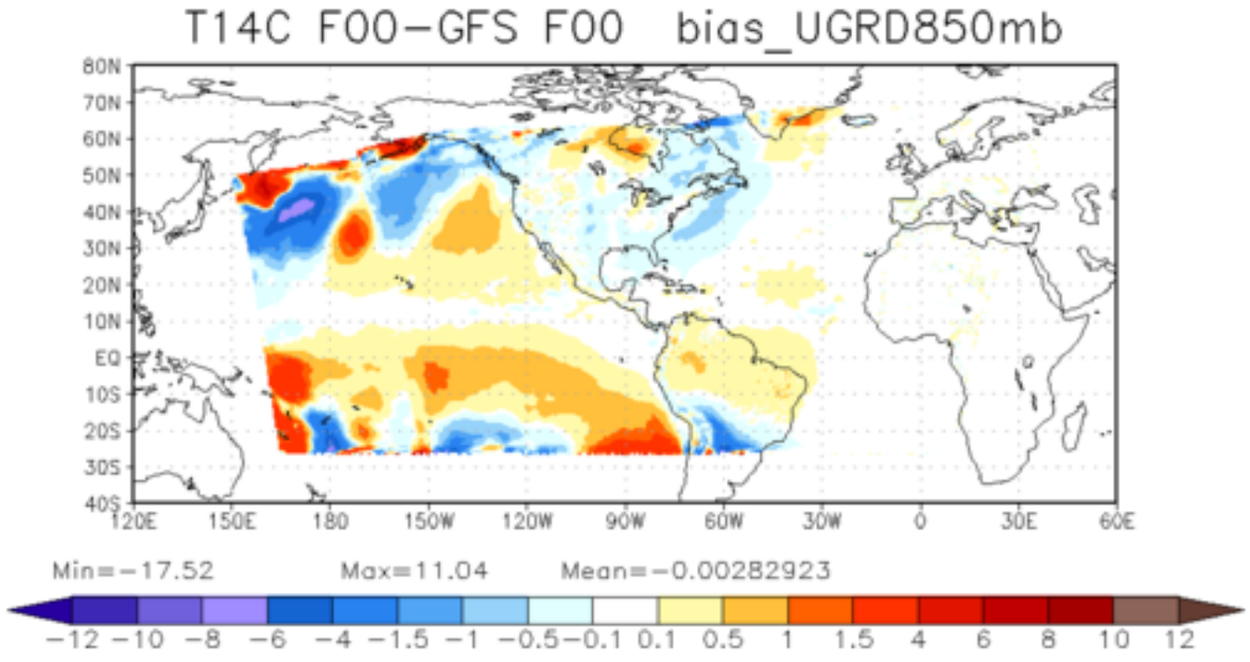
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-17.16 Max=12.94 Mean=0.036032
-12 -10 -8 -6 -4 -1.5 -1 -0.5 -0.1 0.1 0.5 1 1.5 4 6 8 10 12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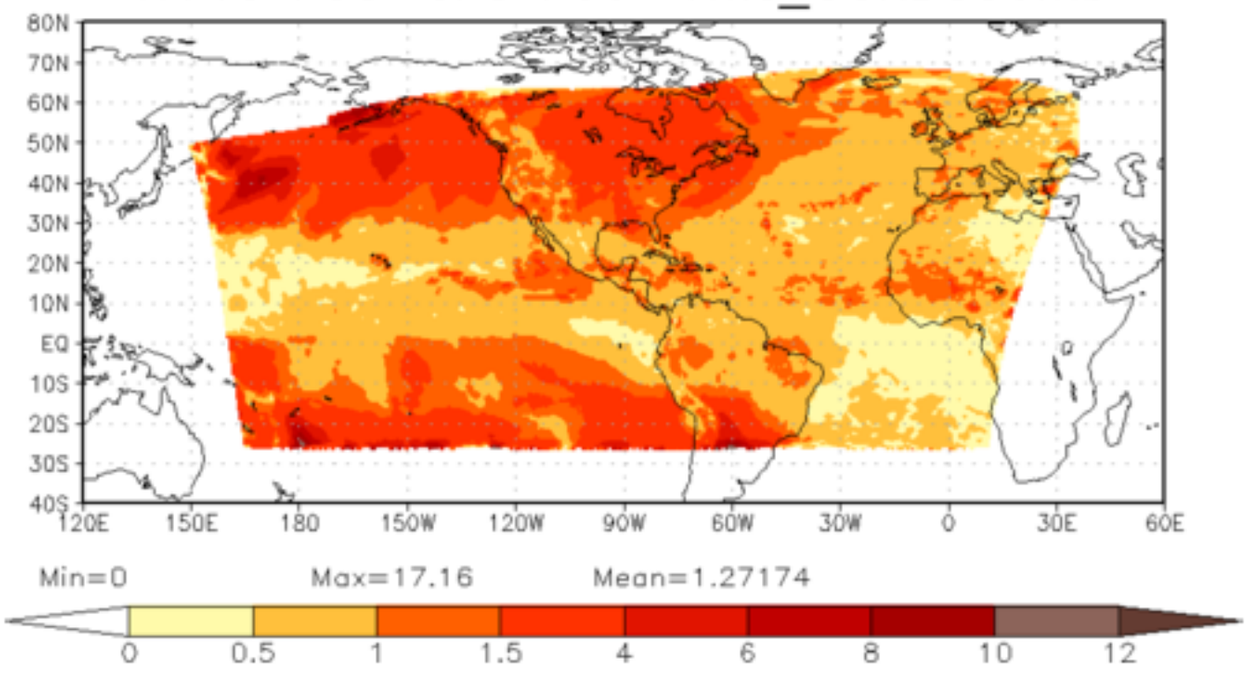
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-17.52 Max=11.04 Mean=-0.00282923
-12 -10 -8 -6 -4 -1.5 -1 -0.5 -0.1 0.1 0.5 1 1.5 4 6 8 10 12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80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
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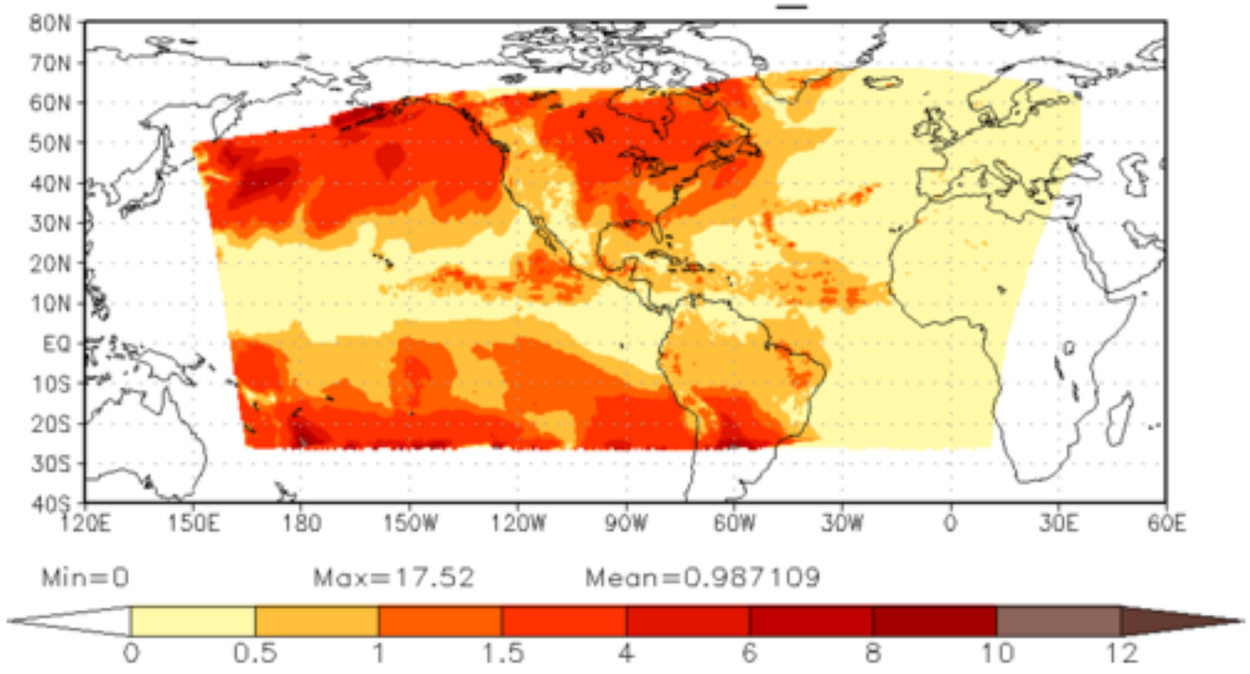
Min=0 Max=17.16 Mean=1.27174
0 0.5 1 1.5 4 6 8 10 12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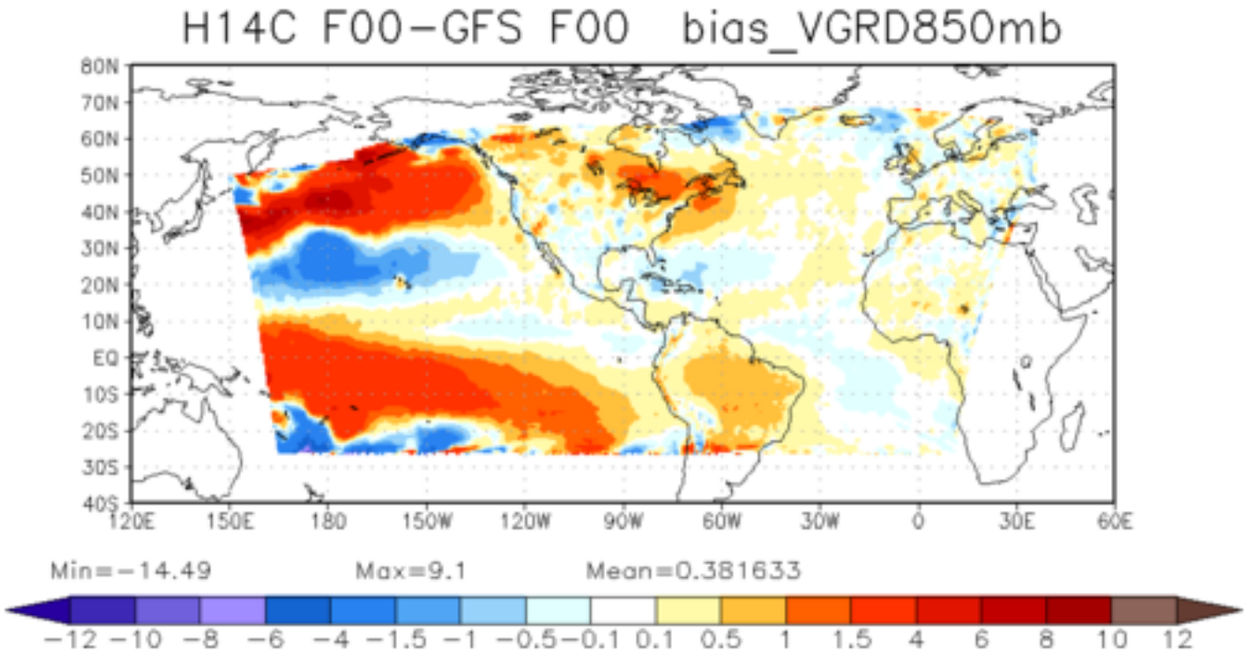
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=17.52 Mean=0.987109
0 0.5 1 1.5 4 6 8 10 12

VGRD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120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-14.49 Max=9.1 Mean=0.381633
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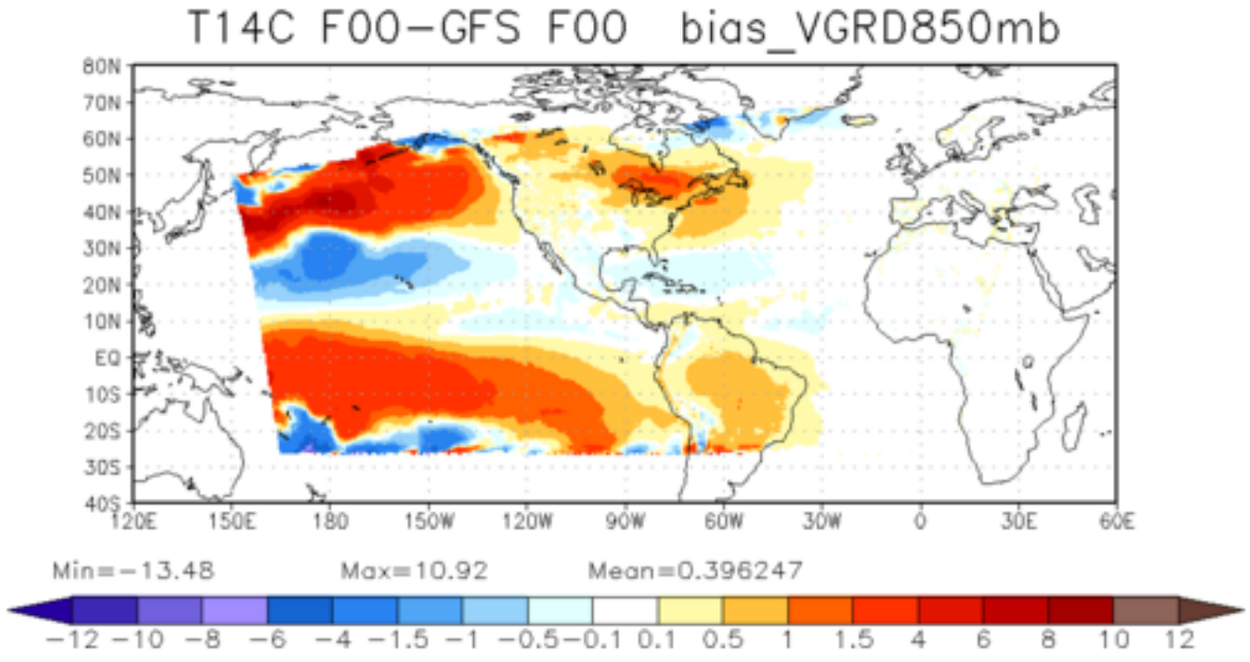
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Min=-13.48 Max=10.92 Mean=0.396247
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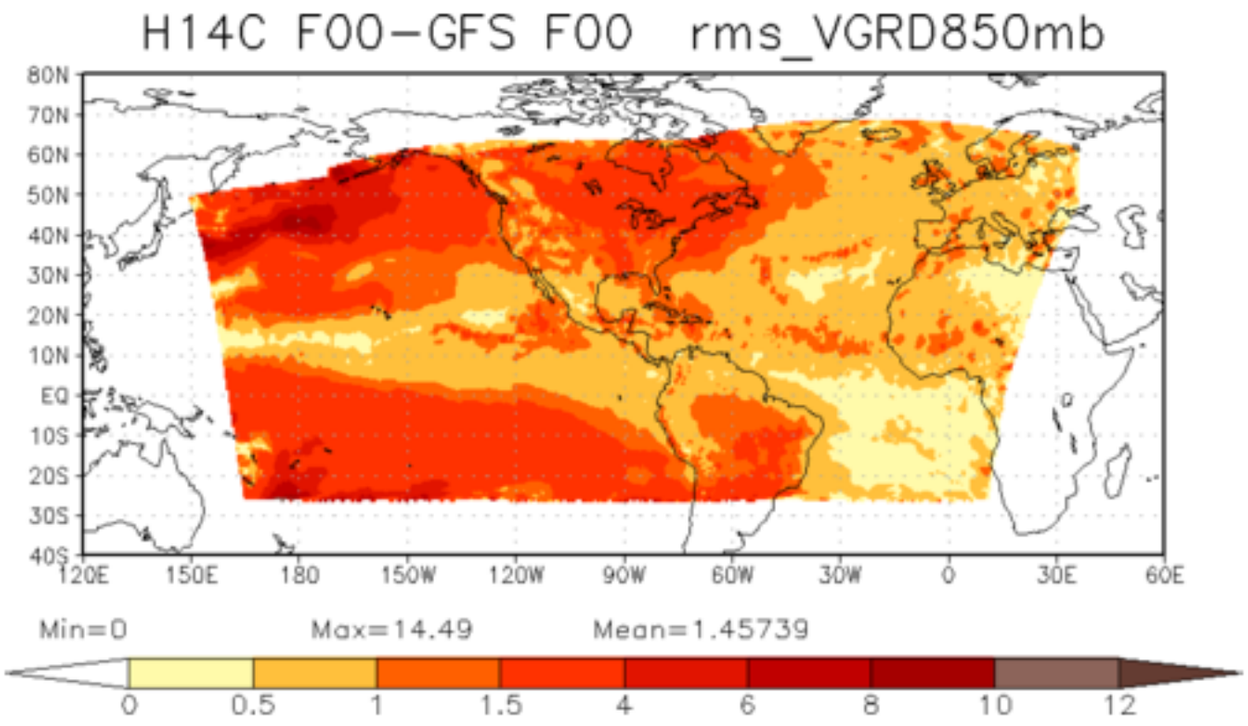
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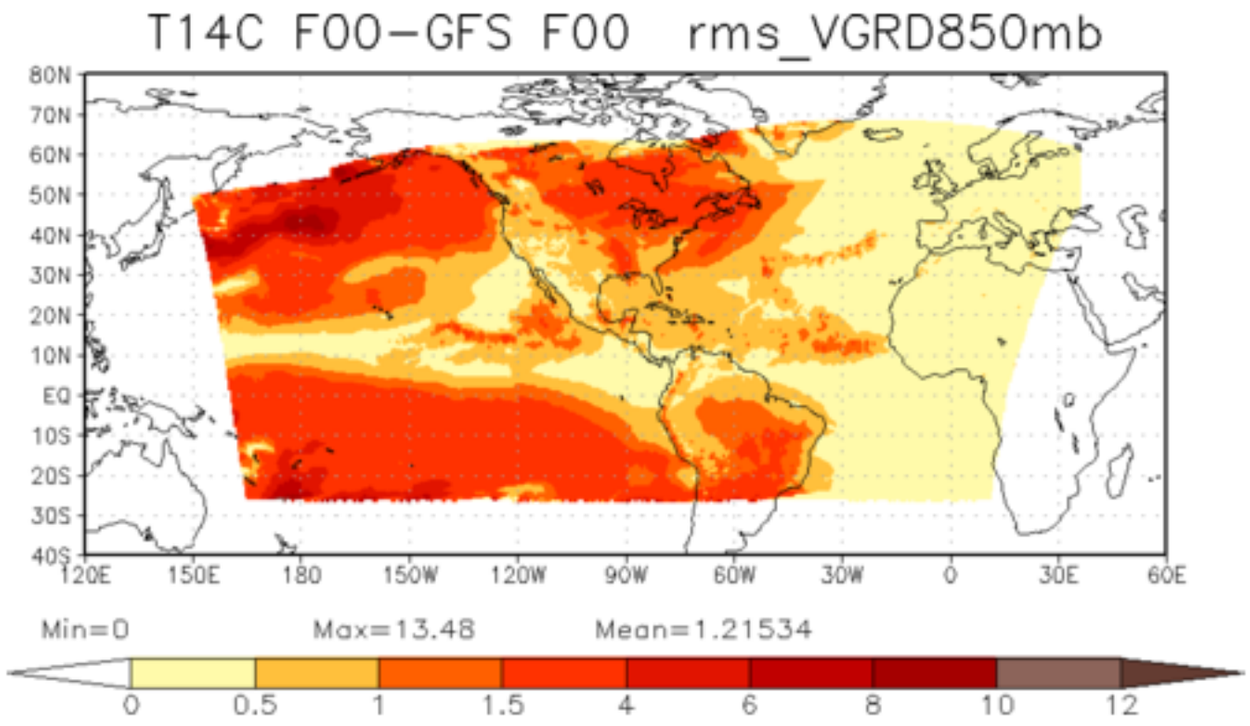
Min=0 Max=14.49 Mean=1.45739
0 0.5 1 1.5 4 6 8 10 12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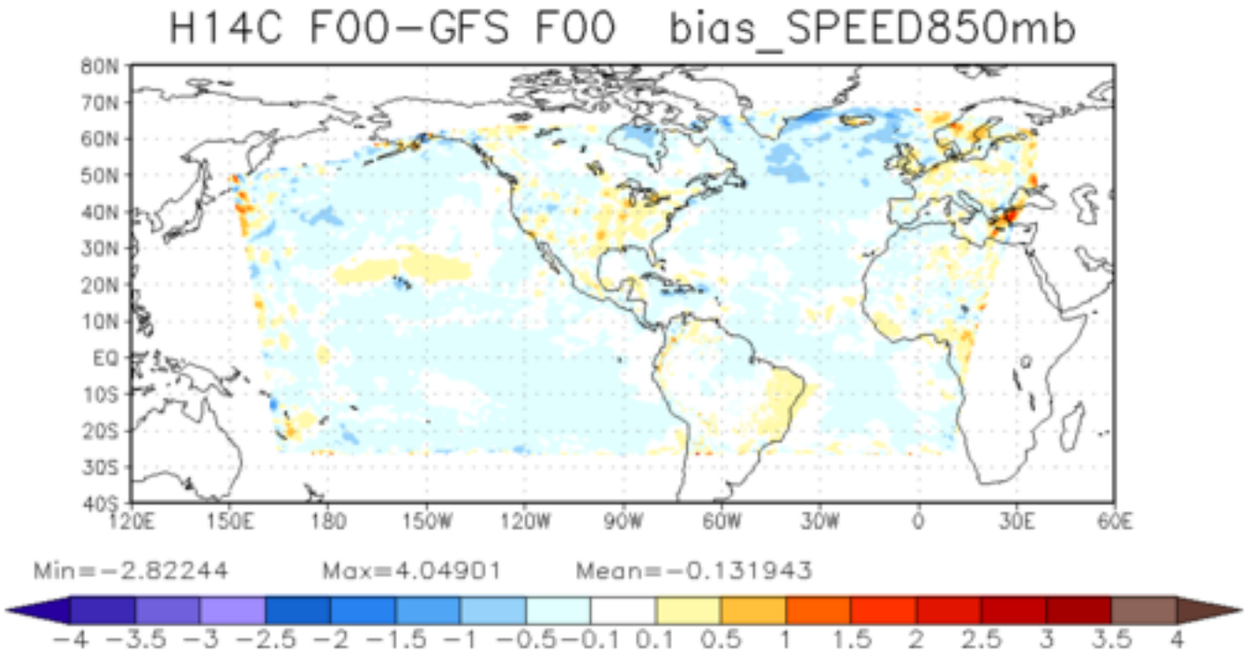
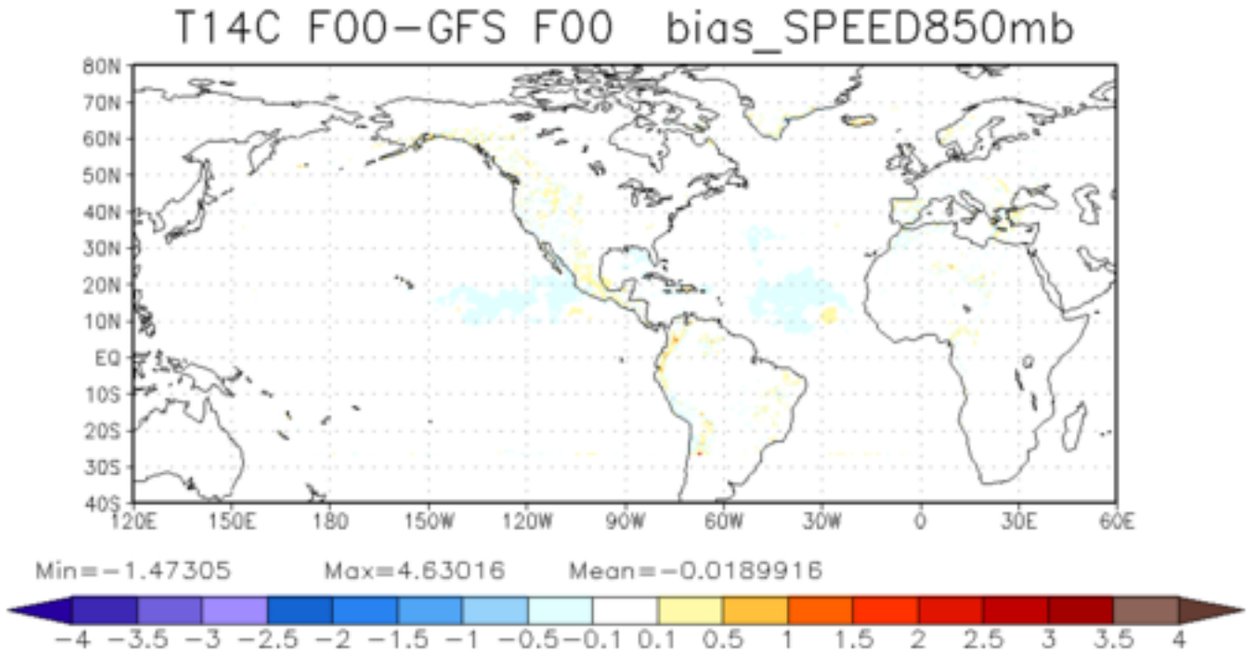
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=13.48 Mean=1.21534
0 0.5 1 1.5 4 6 8 10 12

SPEED


H14C F00-GFS F00 bias_SPEED850mb
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-2.82244 Max=4.04901 Mean=-0.131943
-4 -3.5 -3 -2.5 -2 -1.5 -1 -0.5 -0.1 0.1 0.5 1 1.5 2 2.5 3 3.5 4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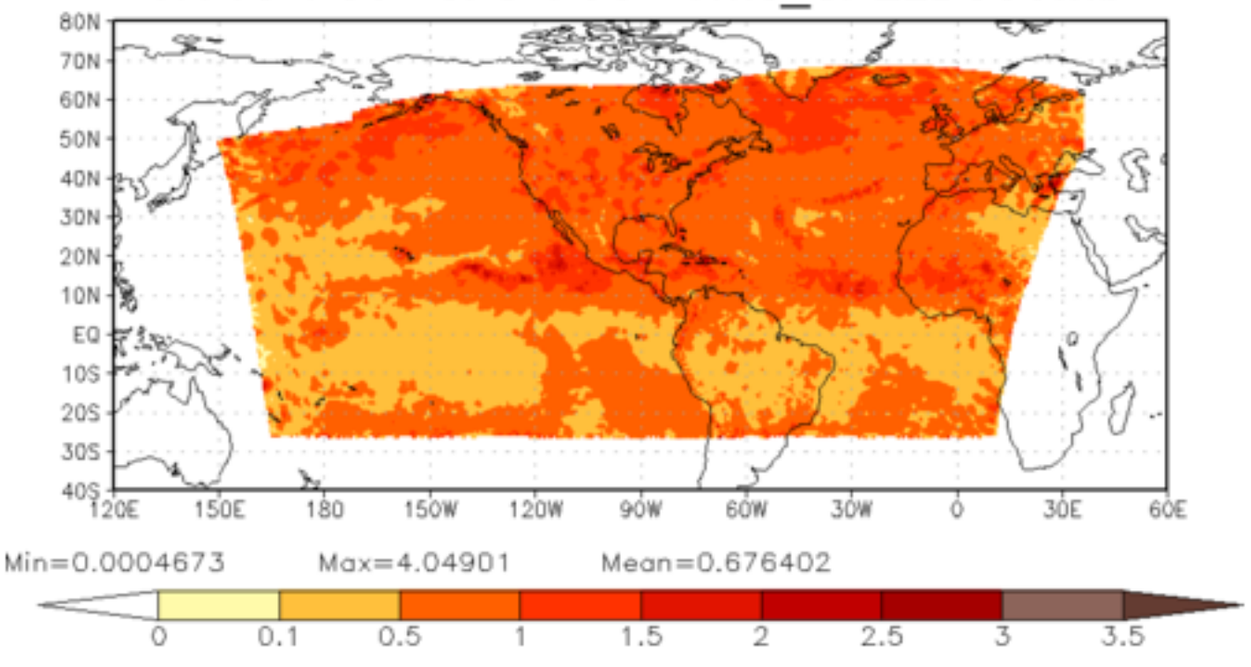
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=-1.47305 Max=4.63016 Mean=-0.0189916
-4 -3.5 -3 -2.5 -2 -1.5 -1 -0.5 -0.1 0.1 0.5 1 1.5 2 2.5 3 3.5 4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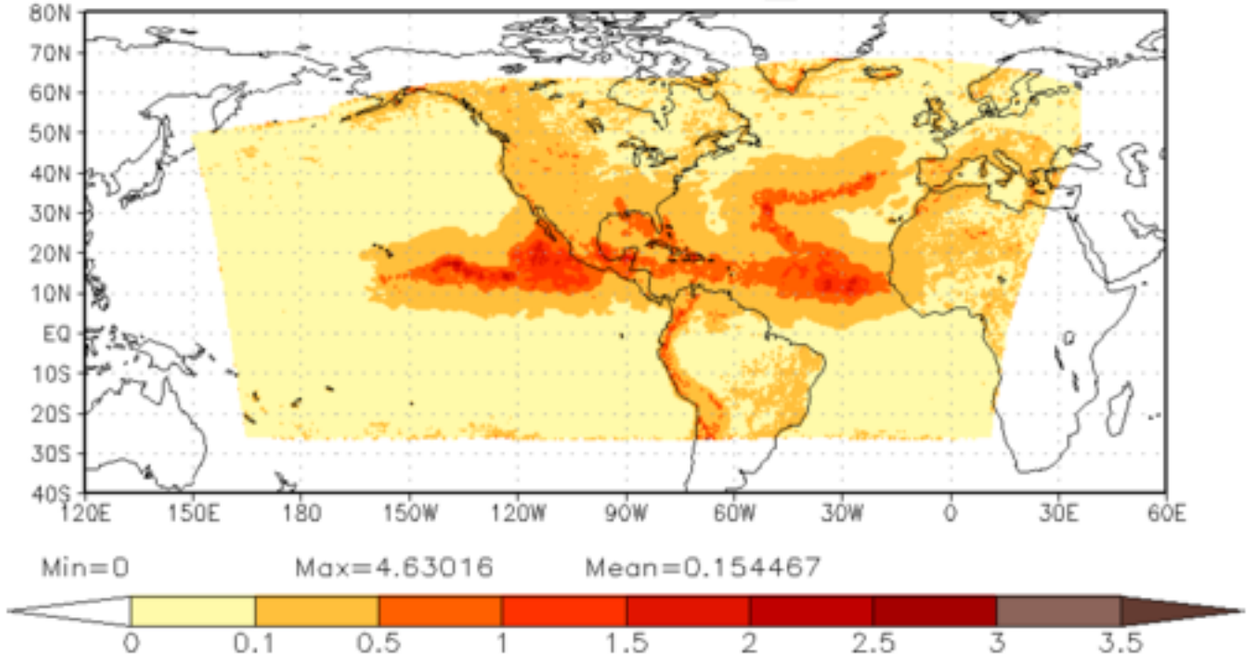
80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0.0004673 Max=4.04901 Mean=0.676402
0 0.1 0.5 1 1.5 2 2.5 3 3.5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80N 70N 60N 50N 40N 30N 20N 10N EQ 10S 20S 30S 40S
120E 150E 180 150W 120W 90W 60W 30W 0 30E 60E
Min=0 Max=4.63016 Mean=0.154467
0 0.1 0.5 1 1.5 2 2.5 3 3.5